

Name VEMA Cruise No. 1 No. 1 Experiment No. 1

Instructor..... **Date**.....

CUB 82

SAMPLE SHEET

Name VERMA 7 No. Experiment No.

Instructor Date

CUB 62

CRUISE # STA. NO.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (m.)	Vol. H ₂ O FILTERED (m ³)	
1V	35-14.8N	73-40.5W	V-26-55	1900		0-365	73	
2V	32-03	77-44	28	±1900		0-38	8	
3V	32-10	79-20	29	0930		0-33	7	
4V	32-20	79-30	29	1240		0-18	4	
10BL	26-14	77-50	VI-2-55	2105	20	0-11		
20BL	26-13	78-11	3	0010	10	0-24		
30BL	26-18	78-13	3	0205	20	0-31		
40BL	26-28	78-32	3	0520	30	0-41		
50BL	26-22	78-15	3	1250	25	0-27		
5V	25-53	78-10.5	3	1930	±10	0-45	9	
6V	25-17	77-34	5	1030		0-45	9	
7V	25-17	77-34	5	1115		0-136	27	
8V	25-19	77-36	5	1300	10-15	0-45	54	
9V	25-19	77-36	5	1330	20	0-545	109	

Name YEMA 7

No. Experiment No.

Instructor

Date

CUB 82

TOTAL PLANK. DISPL. VOL. (ML.)	TOTAL PLANK. DISPL. VOL. (ML./1000m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY ‰	O ₂ CONC	DEPTH
						24.44			SURF.
						24.67			SURF.
						22.33			31M.
						25.00			SURF.
						26.83			SURF.
						26.67			SURF.
						25.83			31M.
						26.61			SURF.
						26.61			40M.
						26.67			SURF.
						25.28			46.M.
						27.22			SURF.
						26.78			32M.
						26.67			SURF.
						25.56			50M.
						26.39			SURF
						26.39			SURF.
						26.39			SURF
						26.39			SURF

Name VENIA 7

No. Experiment No.

Instructor

Date

CUB 82

CRUISE # STA. No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MINS)	DEPTH OF TOW (m)	DIS. H2O FILTERED (m³)
V7-10V	25-19N	77-36W	VI-5-55	1830		0-117	23
11V	25-19	77-36	5	2000		0-548	109
12V	25-06	76-04	11	0845		0-59	24
13V	25-06	76-04	11	0915		0-125	25
14V	23-15	74-17	12	2145	15	0-43	16
15V	23-15	74-17	12	2230	15	0-110	22
16V	24-14	74-14	13	1345	15-20	0-90	36
17V	24-14	74-14	13	1415	15-20	0-235	47
18V	24-13	74-16	13	2030	10-15	0-53	22
19V	24-13	74-16	13	2100	15	0-137	27
20V	25-05	71-50	14	1815	10-15	0-47	18
21V	25-05	71-50	14	1830	15	0-108	22
22V	25-05	70-06	15	1030	10-15	0-68	26
23V	25-05	70-06	15	1100	15-20	0-335	67

Name VENIA 7

No.

Experiment No.

Instructor Date

CUB 62

TOTAL PLANK.	TOTAL PLANK.	TOTAL DISPL. VOL. (ML.)	DISPL. VOL. (ML./1000M ³)	PH.	METHOD OF SEPARATION	DATE SEPARATED	DATES FORAMS IDENTIFIED	TEMP OC	SALINITY ‰	O2 CONC.	DEPTH
								26.39			SURF.
								23.89			98 M.
								26.39			SURF.
								26.72			SURF.
								25.00			64 M.
								26.72			SURF.
								23.33			92 M.
								27.78			SURF.
								25.00			47 M.
								27.78			SURF.
								22.78			101 M.
								27.83			SURF.
								23.33			95 M.
								27.67			SURF.
								27.67			SURF.
								27.78			SURF.
								27.78			SURF.
								27.44			SURF.
								21.11			107 M.

Name VEMA 7No. Experiment No.

Instructor

Date

CUB 82

CRUISE STA. NO.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (m.)	Vol. H ₂ O FILTERED (m ³)
V7-24V	23-28N	65-56W	VI-17-55	915	20	0-90	18
25V	23-28	65-56	17	945	15	0-52	20
26V	23-28	65-56	17	1015	30	0-305	61
27V	23-27	66-11	18	0830	15-20	0-52	20
28V	23-27	66-11	18	0900	20	0-115	23
29V	24-27.5	69-10	21	0045	10	0-52	20
30V	24-27.5	69-10	21	0110	12	0-112	22
31V	24-27.5	69-10	21	0145	17	0-275	55
32V	24-27.5	69-10	21	0210	20	0-335	67
33V	24-32	69-29	21	1535	10	0-52	20
34V	24-32	69-29	21	1555	13	0-122	24
35V	24-32	69-29	21	1625	23	0-437	87
36V	24-32	69-29	21	1725	10		20
37V	24-32	69-29	21	1740	10	0-110	22

Name VEMA 7

No.

Experiment No.

Instructor

Date

CUB 62

TOTAL PANK. DISPL. VOL. (ml.)	TOTAL PANK. DISPL. Vol. (ml. /1000m ³)	TOTAL FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS ID ENTIFFED	TEMP (°C)	SALINITY ‰	O ₂ conc.	DEPTH
						27.44			SURF.
						31.0			95m.
						27.44			SURF.
						31.0			95m.
						27.44			SURF.
						23.89			95m.
						27.28			SURF.
						27.28			SURF.
						23.44			101m.
						27.56			SURF.
						21.67			98m.
						27.56			SURF
						21.67			98m.
						27.56			SURF.
						21.67			98m.
						27.56			SURF
						21.67			SURF
						27.64			SURF
						27.47			SURF.
						22.22			98m.
						27.67			SURF
						27.67			
						27.67			SURF

Name VEMA 7

No.

Experiment No.

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Date.....

CUB 62

CRUISE STA. NO.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW(MIN)	DEPTH OF TOW(M.)	VOL. H ₂ O FILTERED (m ³)
V7-38V	24-32N	69-29W	VI-21-55	1755	18	0-273	55
39V	24-30N	70-26W	22	945	12	0-112	22
40V	SAMPLE BROKEN						
41V	24-30	70-26	22	1100	21	0-305	61
42V	25-42	69-26	23	1245	10	0-52	20
43V	25-42	69-26	23	1315	10	0-110	22
44V	25-42	69-26	23	1350	18	0-400	80
45V	25-54	70-29	24	0010	8	0-52	20
46V	25-54	70-29	24	0040	9	0-113	22
47V	25-54	70-29	24	0100	26	0-530	106
48V	27-20	69-25	24	1540	7	0-52	20
49V	27-20	69-25	24	1535	10	0-113	22
50V	27-20	69-25	24	1630	75	0-530	106
51V	28-06	71-36	25	1100	70	0-110	10

Name EMMA 7

No. Experiment No.

Instructor Date

CUB 82

TOTAL PANK. DISPL. VOL. (ML.)	TOTAL PANK. DISPL. VOL. (ML./1000 ml ³)	TOTAL FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY ‰	O ₂ CONC.	DEPTH
						27.67			SURF
						27.39			SURF
						22.78			96 m.
						27.39			SURF.
						27.67			SURF
						27.67			SURF
						22.78			95 m
						27.67			SURF
						27.28			SURF
						27.28			SURF
						21.67			107 m
						27.28			SURF
						27.56			SURF
						27.56			SURF
						22.22			109 m.
						27.56			SURF
						27.22			SURF

Name VEMA 7

No.

Experiment No.

Instructor

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CUB 62

CRUISE # STA. No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (M.)	VOL. H ₂ O FILTERED m ³
V7-52V	28-06N	71-36W	VI-25-55	1215	10	0-52	20
53V	28-06	71-36	25	1245	20	0-122	25
54V	SAMPLE	3 BROKEN					
55V	28-35	70-54	25	1845	7	0-52	20
56V	28-35	70-54	25	1900	10	0-110	22
57V	28-35	70-54	25	1925	27	0-510	102
58V	29-10	69-53	26	1415	10	0-52	20
59V	29-10	69-53	26	1445	10	0-130	26
60V	29-10	69-53	26	1515	12	0-510	102
1CB	28-39	70-53	26	0040	30	[±] 0-61	
2CB	30-02	70-21	27	0100	30	[±] 0-46	
61V	30-17	71-03	27	1155	10	0-137	27
62V	30-17	71-03	27	1220	15	0-60	12
63V	30-17	71-03	27	1255	44	0-510	102

Name VEMA 7

No. Experiment No.

Instructor.....

Date.....

CUB 62

TOTAL PLANKTON DISPL. VOL. (ML.)	TOTAL PLANK. DISPL. VOL. (ML./1000M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY ‰	O ₂ conc	DEPTH
						27.22			SURF
						27.22			SURF
						20.56			107M
						27.11			SURF.
						20.00			107M.
						27.11			SURF
						20.00			107M
						27.11			SURF
						27.11			SURF
						27.11			SURF
						27.11			SURF
						27.11			SURF
						27.11			SURF
						25.44			SURF
						18.89			107
						26.00			SURF.
						20.00			102M.
						26.00			SURF
						26.00			SURF

Name VENA 7 No. Experiment No.

Instructor Date

CUB 62

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (min.)	DEPTH OF TOW (m)	Vol. H ₂ O FILTERED (m ³)
VT-64V	31-41N	71-18W	VI-27-55	1915	8	0-67	13
65V	31-41	71-18	27	1940	10	0-122	24
66V	31-41	71-18	27	1955	40	0-510	102
3aBC	31-42	70-47	28	0330	90	0-46	
3BC	31-42	70-47	28	2105			
4ABC	31-42	70-47	28	2035	30		
4bBC	31-42	70-47	28	2340			
1SURF	31-42	70-47	28	2230	45	SURF.	
67V	31-23	66-36	29	1330	15	0-67	13
68V	31-23	66-36	29	1930	35	0-122	24
69V	31-23	66-36	29	1530	58	0-510	102
5acb	31-22.5	66-32	29	1640	30		
5bcb	31-22.5	66-32	29	1750	30		
5ccb	31-22	66-28	29	1835	30		

Name Vera A. T

No. Experiment No.

Instructor

Date

CUB 62

TOTAL PLANK.	TOTAL PLANK.	TOTAL PL.	METHOD	DATE	DATE	TEMP	SALINITY	O ₂	DEPTH
DISPL. VOL.	DISPL. VOL.	FORAMS	OF	SEPARATED	FORAMS	(°C)	%oo	CONC.	
(ML.)	(ML./1000m ³)		SEPARATION		IDENTIFIED				
						25.00			SURF
						25.00			SURF
						25.00			SURF
						25.00			SURF

Name V2447

No.

Experiment No.

Instructor

Date

CUB 62

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME ON TOW (MIN.)	DEPTH OF TOW (M.)	Vol. H ₂ O FILTERED m ³
V7-5dcb	31-22N	66-28W	VI-29-55	1935	30		
2SURF				30 0015	15	SURF.	
3SURF	37-53	64-59	VII-9-55		18	SURF.	
70V	39-32	64-56		10 1106	24	0-50	10
71V	39-32	64-56		10 1219	21	0-100	20
72V	38-46	64-09		11 0024	23	0-50	10
73V	38-46	64-09		11 0058	22	0-100	20
74V	38-46	64-09		11 0131	45	0-500	100
75V	37-52	63-10		11 1310	10	0-50	10
76V	37-45	63-08		11 1450	20	0-100	20
77V	37-45	63-08	"	11 1892	52	0-500	100
78V	38-03	61-45	12	2205	14	0-50	10
79V	38-03	61-45	12	2245	10	0-100	20
80V	38-03	61-45	13	0000	42	0-500	100

Name Yemay T

No. Experiment No.

Instructor.....

Date _____

CUB 32

Name EMIA 7

No. Experiment No.

Instructor

Date

CUB 32

CRUISE STA. NO.	LAT.	LONG	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (M.)	Vol. H2O FILTERED (M ³)
V7-81V	38-58N	58-20W	11-15-55	1030	14	0-50	10
82V	38-58	58-20	15	1105	10	0-100	20
83V	38-58	58-20	15	1218	10	0-500	100
6CB			15	1420	305	0-31	
7CB			15	1753	82	0-61	
84V	38-56	57-09	16	0602	24	0-50	10
85V	38-56	57-09	16	0637	39	0-100	20
86V	38-56	57-09	16	0705	45	0-500	100
87V	38-56	57-09	16	0803	24	0-100	20
88V	39-27	56-55	16	1334	14	0-50	10
89V	39-27	56-55	16	1412	21	0-100	20
90V	39-27	56-55	16	1450	43	0-500	100
91V	39-46	55-45	17	0517	21 3	0-50	10
92V	39-46	55-45	17	0601	27	0-100	20

Name VEMA 7 No. Experiment No.

Instructor Date

CUB 32

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML/1000m ³)	TOTAL PL. FORAMS	METHOD OF SEPARA- TION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP(°C)	SALINITY ‰	O ₂ CONC.	DEPTH
						25.83			SURF
						25.83			SURF
						25.83			SURF
						26.56			SURF
						26.56			SURF
						26.56			SURF
						26.56			SURF
						26.78			SURF
						26.78			SURF
						26.78			SURF
						25.28			SURF
						25.28			SURF

Name VEMA 7 No. Experiment No.

Instructor Date

CUB 62

CRUISE & STATION No	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (M.)	Vol. H ₂ O FILTERED (m ³)
V7-93V	39-46N	55-45W	VII-17-55	0706	44	0-500	100
94V	39-52	54-43	17	1835	15	0-50	10
95V	39-52	54-43	17	1915	18	0-100	20
96V	39-52	54-43	17	1753	21	0-500	100
97V	39-10	53-31	18	0613	16	0-50	10
98V	39-10	53-31	18	0646	19	0-100	20
99V	39-10	53-31	18	0805	38	0-500	100
100V	38-41	52-49	18	1529	14	0-50	10
101V	38-41	52-49	18	1600	20	0-100	20
102V	38-41	52-49	18	1635	39	0-500	100
103V	37-57	50-54	19	0614	15	0-50	10
104V	37-57	50-54	19	0643	29	0-100	20
105V	37-57	50-54	19	0725	55	0-500	100
106V	38-50	51-32	19	1520	14	0-50	10

Name EMMA TNo. Experiment No.

Instructor

Date

CUB 62

PL. DISPL. VOL (ML)	TOTAL PL. DISPL. VOL (ML./1000 m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (OC)	SALINITY (‰)	O ₂ conc.	DEPTH
						25.28			SURF
						26.39			SURF
						26.39			SURF
						26.39			SURF
						22.83			SURF
						22.83			SURF
						22.94			SURF
						23.61			SURF
						23.61			SURF
						23.61			SURF
						25.0			SURF
						25.0			SURF
						25.0			SURF
						25.61			SURF

Name VEMA 7 No. _____ Experiment No. _____

Instructor _____ Date _____

CUB 62

CRUISE # STA. NO.	LAT.	LONG.	DATE	TIME	TIME OF TOW (MIN.)	DEPTH OF TOW (M)	Vol. H ₂ O FILTERED (m ³)
V7-107U	38-50N	51-32W	11-19-55	1559	18	0-100	20
108U	38-50	51-32	19	1649	40	0-500	100
109U	34-45	52-47	21	1541	15	0-50	10
110U	34-45	52-47	21	1615	17	0-100	20
111U	34-45	52-47	21	1645	52	0-500	100
7surf	34-53	52-58	21	2240	15	surf	
7CB	35-4		21	1753	82	0-200	
8CB			21	1826	49	0-350	
9CB			21	1826	49	0-450	
10CB			22	1531	80	0-600	
11CB			22	1531	80	0-700	
112U	35-24N	53-38W	22	0535	24	0-50	10
113U	35-24	53-38	22	0613	26	0-100	20
114U	35-24	53-38	22	0701	45	0-500	100

Name VEMA 7 No. Experiment No.

Instructor Date

CUB 32

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML/1000m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY ‰	O2 CONC	DEPTH
					25.61				SURF
					25.61				SURF
					25.28				SURF
					25.28				SURF
					25.28				SURF
					25.56				SURF
					25.56				SURF
					25.56				SURF

Name VERMA 7

No.

Experiment No.

Instructor

Date

CUB 62

CRUISE STA. No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (m)	Vol. H ₂ O FILTERED m ³
115V	35-43N	53-17W	VII-22-55	1309	14	0-50	10
116V	"	"	"	1335	15	0-100	20
117V	"	"	"	1410	32	0-500	100
5swr	35-53	53-41	"	2137	15	SURF	
120B			23	0653	74	0-100	
130B			"	0653	74	0-1200	
118V	36-56	53-56	"	0535	20	0-50	10
119V	"	"	"	0634	18	0-100	20
120V	"	"	"	0716	50	0-500	100
121V	37-23	53-22	"	1350	13	0-50	10
122V	37-23	53-22	"	1415	28	0-100	20
123V	"	"	"	1500	31	0-500	100
CB? 14			"	1451	69	0-800	
CB? 15			"	1451	69	0-900	

Name J E M A T No. Experiment No.

Instructor Date

CUB 52

PL. DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML. /1000M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	OZONE CONC.	DEPTH
						25.50			SURF
						25.50			SURF
						25.50			SURF
						18.33			83
						20.33			SURF
						25.22			SURF
						25.22			SURF
						18.33			78
						25.83			SURF
						25.83			SURF
						25.94			SURF
						18.89			127

Name Vera A T No. Experiment No.

Instructor Date

CUB 62

CRUISE STA. NO.	LAT.	LONG	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (m)	Vol. H ₂ O FILTERED (m ³)
V7-CB?16			VII-29-55	0741	124	0-600	
CB?17			"	0741	124	0-700	
CB?18			"	1808	52	0-300	
CB?19			"	1808	52	0-400	
124V	37-29N	54-53W	"	0640	21	0-50	10
125V	"	"	"	0733	18	0-100	20
126V	"	"	"	0803	42	0-500	100
127V	38-18	55-15	"	1708	23	0-50	10
128V	"	"	"	1745	30	0-100	20
129V	"	"	"	1836	36	0-500	100
130V	38-06	56-46	25	0749	26	0-50	10
131V	"	"	"	0839	23	0-100	20
132V	"	"	"	0921	32	0-500	100
6SURF	36-28	56-29	"	2223	7	SURF.	

Name..... James T No..... Experiment No.....

Instructor Date

CUB 52

PH. DISPL. VOL. (M.L.)	TOTAL PL. DISPL. VOL. (ML./1000M ³)	TOTAL PL. FORAMS (ML./1000M ³)	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O2 CONC	DEPTH
						25.39			SURF
						25.39			SURF
						25.39 18.89			SURF 96
						25.61			SURF
						25.61			SURF
						25.61 19.00			SURF 111
						25.28			SURF
						25.28			SURF
						25.28 18.33			SURF 102

Name VERMA 7 No. Experiment No.

Instructor Date

CUB 62

CRUISE #	STATION NO.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (M)	Vol. H ₂ O FILTRATED (m ³)
V7-133V	35-30N	55-47W	VII-26-55	0923		17	0-50	10
134V	"	"	"	1015		21	0-100	20
135V	"	"	"	1045		35	0-500	100
136V	35-00	57-12	27	0718		25	0-50	10
137V	"	"	"	0750		22	0-100	20
138V	"	"	"	0831		31	0-500	100
7SURF	35-05	56-38	"	2200		5	SURF	
CB?	20			31				
CB?	21			31				
VERTICAL RV7-1 SERIES	32-39N	64-23W	VIII-5-55	0048		7	0-25	490
2	"	"	"	0140		6	0-50m	420
3	"	"	"	0202		11	0-50	770
4	"	"	"	0220		25	0-100	1750
5	"	"	"	0617		33	0-320	2300

Name VEMA 7 No. Experiment No.

Instructor Date

CUB 62

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML./1000M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC	DEPTH
37	76					26.56			SURF
2	5					26.56			SURF
8	10					26.56			SURF
1	0.5					26.78			SURF
						26.78			SURF
						26.78			SURF
						26.78			SURF
						26.61			SURF

Name VEMA 7 No. Experiment No.

Instructor Date

CUB 62

CRUISE STATION NO.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW(M)	Vol. H ₂ O FILTERED m ³
RV7-6	32-39N	64-23W	VIII-5-55	0911			
7	"	"	"	1255	10	20-60	700
8	"	"	"	1318	22		1540
9	"	"	"	1405	15		1050
10	"	"	"	1452	43		3000
11	"	"	"	1621	59		1050
12	60-14W 34-10N 60-14W		7	1413	23	0-300	25
13	35-14N	59-30W	8	0649	21	0-300	23
14	35-20N	58-23W	"	1822	31	0-300	30
15	35-07N	57-34W	9	1638	29	0-300	30
16	35-11	57-36	"	1707	14	0-150	15
17	35-28	57-50	10	0612	23	0-75	25
18	35-20	57-35	"	1345	12	0-518	12
19a	56-46	36-32	VIII-11-55	1447	31	0-300	30
b				1452	26	0-300	1750

Name Verna T No. Experiment No.

Instructor Date

CUB 62

PLANKTON TOTAL PL. DISPL. Vol. DISPL. Vol. (ML.) (ML./100cm ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC	DEPTH
24 ML. 17 ML.								
14	10							
2	2							
25	8							
2	2							
2	2							
8	32							
10	44							
12	40							
10								
6	40							
2								
16 74	53 44							

Name Varia 7 No. Experiment No.

Instructor Date

CUB 62

CRUISE STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME FOR DOWNTOW (min)	DEPTH OF DOWNTOW (m)	Vol. M20 FILTERED (m³)
RJ7-20a	32-39N	64-23W	11/11-12-55	0635	31	0-300	33
b	37-55N	59-05W			24	0-300	1750
21a	60-10	38-12	"	1940	24	0-300	22
b					20	0-300	1400
22	"	"	"	2140	55	0-1	50
23a	38-37N	63-10W	13	1809	39	0-300	40
b					33	0-300	2300
24a	38-37N	63-10W	11	1841	27	0-300	27
b					21	0-300	1470
25a	39-55N	64-00W	14	0927	31	0-300	30
b					26	0-300	1900
26a	40-56	62-55	"	1754	25	0-300	28
b					18	0-300	1400
27a	42-53	62-07	15	0855	28	0-300	
b					22	0-300	
28a	42-57	61-48	11	1740	26	0-300	30
b					22	0-300	1600
29a	43-18	61-10	14	0823	32	0-300	30
b					24	0-300	31700
30a	43-18	58-35	11	1745	30	0-300	30
b						0-300	
31a	42-40	60-00	17	1751		0-300	30
b						0-300	2100
32a	42-21	57-07	18	0854	30	0-300	30
b					22	0-300	1600
33a	41-53	55-25	"	1749	23	0-300	27
b					19	0-300	1400

Name Vernia No. Experiment No.

Instructor Date

CUB 82

TOTAL PL. DISPL. VOL. (ML.)	TOTAL PL. (ml/1000m ³)	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC	DEPTH
12	37							
38	22							
11	4							
14	10							
3								
1	2							
10	37							
40	24							
9	2	2						
62	33							
18	60							
76	54							
12	40							
53	33							
4	12							
21	13							
3	10							
38	22							
4	12							
12	9							
3	10							
66	32							
12	40							
32	20							
18	67							
64	96							

Name Vara T

No. Experiment No.

Instructor

Date

CUB 62

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (m)	VOL. H ₂ O FILTERED (m ³)
RV T-34a	41-15N	52-12W	11/11-19-55	0848	31	0-300	30
b					27	0-300	1900
35a	40-52	51-07	19	1752	23	0-300	25
b					18	0-300	1900
36a	40-17	48-54	20	0836	30	0-300	30
b					26	0-300	1800
37a	39-06	48-38.5	11	1749	32	0-300	35
b					26	0-300	1800
38a	34-45	50-14	22	0841	33	0-300	30
b					27	0-300	1900
39a	34-18	51-22	11	1740	31	0-300	30
b					26	0-300	1800
40a	33-15	53-37	23	0846	31	0-300	30
b					26	0-300	1800
41	32-53	55-03	11	1745	23	0-300	27
					19	0-300	1300
42	32-20	61-30	24	0835	29	0-300	29
					24	0-300	1600
43	32-20	61-00	24	1752	36	0-300	37
					28	0-300	2100
44	32-30	64-30	25	0845	38	0-300	38
					27	0-300	1800
45a			25	1756	39	0-300	39
b					28	0-300	1900
46a			24	0200	49	0-300	49
b					39	0-300	2300
47	32-30	64-30	11	0250			85
48			11				

Name..... Verna T No..... Experiment No.....

Instructor **Date**

Date.....

CUB 32

Name Vema 8

No.

Experiment No.

Instructor

Date

CUB 82

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW M.	VOL. H ₂ O FILTERED
Y2M. TOWS							
1	18-1	20-01.9	W X1-10-55 70-39.9	1958	31 MIN	185	335
2	19-32N	68-57.5W	X1-13-55	1420		230	150
3	17-05.0	68-59.0	X1-17-55	1800	155	1230	1620
4	16-48.2	70-19.0	X1-23-55	2102			
5	17-05.8	71-37.0	X1-25-55	1903			
6	16-36.2	72-09.6	26	0131	26	330	252
7	15-45.4	72-45.0	26	0925	81	850	500
8	15-09.5	73-25.8	27	0215	26	210	301
9	14-22.6	74-11.4	27	1826			
10	11-54.7	75-42.6	28	1634	27	365	229
11	11-32.6	75-54.5	29	2420	26	380	168
12	11-33.9	75-43.3	29	1705	26	380	210
13	12-23.3	77-45.5	30	2030	28	390	204
14	11-16.8	79-13.1	X11-1-55	1100	27	405	173
15	18-1	9-34.9	79-46.4	2	0530		

Name..... Janet S No..... Experiment No.....

Instructor **Date**

CUB 32

Name VEMA 8

No. Experiment No.

Instructor

Date

CUB 62

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW m.	Vol. H ₂ O FILTERED
V8-16	11-23.2N	77-37.1W	XII-7-55	0630	30	400	210
17	12-51.2	77-22.0	8	0725	29	380	226
18	14-46	78-09.3	9	1223	33	365	280
19	"	"	9	1840	45	375	368
20	16-16.7	79-13.9	10	1555	49	300	610
21	17 17-28.3	76-21.8	13	2030	91	400	610
22	16-05.2	76-11.3	14	0840	24	370	199
23	18-05.9	80-23	17	2407	28	380	218
24	18-13.1	79-33.9	17	1210	40	380	308
25	18-42.8	79-43.4	18	1930	36	380	280
26	19-04	80-47.4	20	0900	34	365	289
27	19-04	80-48	20	1255	237	1270	2440
28	19-13.1	81-23.7	21	1250	29	410	180
29	19-46.9	80-40.7	22	0635	382	1400	3820
30	19-13	79-26.2	23	1430	40	400	260

Name..... VEMA 8 No..... Experiment No.....

Instructor **Date**

CUB 62

Name Janet A 8

No. Experiment No.

Instructor

Date

CUB 82

CRUISE #	STATION No.	LAT.	LONG	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (M)	Vol H ₂ O FILTERED (m ³)
	18-31	19-13 N	78-54.7 ^W	XII-23-55	2316	31	400	217
	32	19-10.6	77-56.2	24	1219	74	400	495
	33	19-23.3	77-14.9	24	2323	14	360	138
	34	19-14	76-51.2	25	1200	143	670	1460
	35	19-37.5	76-18	26	0955	65	690	560
	36	19-49.6	75-36.8	27	0195		1830	915
	37	18-24	75-11	31	0910	22	385	171
	38	17-33.9	73-22.1	1-1-56	1959	37	330	363
	39	17-31.5	72-31.6	1-2-56	0100	31	850	282
	40	17-46	70-05.0	3	1922	43	325	430
	41	19-10.9	67-06.0	5	0936	153	400	1020
	A2	20-32.5	64-52	7	1849	80	385	616
	43	19-57.1	65-07.5	8	0940	55	860	294
	44	19-41	66-03	9	2401	34	340	320

Name..... Verna S. No..... Experiment No.....

Instructor **Date**

CUB 32

Name Vema 9 No. Experiment No.

Instructor Date

CUB 62

CRUISE STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (m)	VOL. H ₂ O FILTERED (m ³)
V9B-1	39-30N	67-40W	11/22-56	0435	35	0-395	229
V9B-2	34-57	68-23	23	0110	30	SURF	232
V9B-3	37-28	71-36	11/24-56	0838	22	0-395	316
27	00-23N	29-52W	11/18-56	1456	41	0-500	250
28	02-59.8	33-10.2	15	0826	50	0-450	250
29	03-50.1	34-40.5	15	2104	38	0-990	380
30	06-02.4	36-39.6	16	1705	235	0-1060	675
33A	20-41.8	51-35.5		1323	97	0-1310	665
33B	22-24.3	54-18.2	19	1515	160	0-800	400

Name Verna Q

No. Experiment No.

Instructor Date

CUB 82

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML./1000 m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY (‰)	O ₂ CONC	DEPTH
						18.56			SURF
						14.6			SURF

Name VEMA 10 No. Experiment No.

Instructor Date

CUB 62

CRUISE STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (M)	VOL. H2O FILTERED
V10-1 FL. 5	32-39N	57-55W	11-5-56	0905	60	0-75	
SPT 1	33-00	49-14	7	1852		0-957	
V10-2 FL. 2	33-00	49-14	7	2030	60	0-75	
V10-3 FL. 3	33-07	42-56	9	1520	120	0-75	
V10-4 FL. 4	33-08	39-49	10	1820	120	0-75	
V10-5 FL. 5	32-55	38-02	11	1910	120	0-75	
V10-2 SPT 2	31-46	34-36.5	12	2408		0-310	
V10-6 FL. 6	31-53	33-03	13	1240	120	0-75	
V10-3 SPT 3	31-54	31-35	14	1032		0-310	
V10-7 FL. 7	32-14	21-41	18	1030	60	0-75	
V10-4 SPT 4	32-21	21-36	18	1642		0-370	
V10-8 FL. 8	33-14	14-15	22	1902	85	0-75	
V10-9 FL. 9	33-54	11-25	23	1908	75	0-75	
V10-5 SPT 5			26	1657		0-58.8	
V10-6 SPT 6	36-14	5-10	28	0318		0-155	

Name Vera M A 10 No. Experiment No.

Instructor Date

CUB 62

PLANKTON DISPL. VOL. ML.	TOTAL PL. DISPL. VOL. (ML./1000 m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC.	DEPTH
						22.6			SURF
						23.1			SURF
						18.33			92M
						23.1			SURF
						18.33			92M
						24.0			SURF
						21.7			SURF
						22.5			SURF
						21.9			SURF
						18.89			92M
						21.7			SURF
						21.0			SURF
						17.78			92M
						19.1			SURF
						19.1			SURF
						19.5			SURF
						20.56			SURF
						15.0			92M
						18.89			SURF
						13.33			92M

Name VEMA 10 No. Experiment No.

Instructor THETA Date

CUB 82

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OR TOW (MIN.)	DEPTH OF TOW (M)	Vol. H ₂ O FILTERED m ³
TH - 1x	26-14N	18-05W	9-9-56				
2x	25-14	21-25		10			
3x	24-23	24-07		11			
4x	23-23	27-17		12			
5x	22-55	30-42		13			
6x	22-56	33-31		14			
7x	23-00	36-47		15			
8x	22-59	40-13		16			
9x	23-01	43-48		17			
10x	23-02	47-03		18			
11x	23-23	46-24		18			
12 x	24-11	46-21		19			
13 x	24-11	47-27		19			
14 x	24-58	48-50		20			

Name VEWA 10 No. Experiment No.

Instructor THETA Date

CUB 62

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. 1000m ³	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY ‰	O ₂ CONC.	DEPTH
						23.2			5 SURF
						23.5			SURF
						23.3			SURF
						24.3			SURF
						23.9			SURF
						25.2			SURF
						25.4			SURF
						26.2			SURF
						26.7			SURF
						26.0			SURF
						27.3			SURF
						27.5			SURF
						27.3			SURF

Name VENA 10 No. Experiment No.

Instructor THETA Date

CUB 62

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (M.)	VOL. H ₂ O FILTERED (M ³)
14- xx 15X	26-31N	51-47W	1X-21-56				
16 xx	27-52	59-38		22			
17 xx	29-41	58-22		23			
18X	31-25	69-10		25			
19X	31-49	69-43		27			
20X	39-26	72-56		30			

Name JENNA JO No. Experiment No.

Instructor THEETA Date

CUB 62

PLANKTON DISPL. VOL. ML.	TOTAL PL. DISPL. VOL. (ML/1000M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP OC	SALINITY ‰	O ₂ CONC.	DEPTH
						27.6			SURF
						28.0			SURF
						28.7			SURF
						27.3			SURF
						27.0			SURF
						17.1			SURF

Name UEMA 11 No. Experiment No.

Instructor Date

CUB 82

CRUISE STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH. OF TOW (m)	VOL. H ₂ O FILTERED (m ³)
U11-FL 1 40-09N	73-21.15W	XI-6-56	2051		44	0-75	
SPT 1 40-09	73-21.15	6		2050		0-25	
FL 2 39-31.4	72-22	7		0750	32	0-75	
SPT 2	"	"	"	0754		0-100	
SPT 3 39-31	72-23	"		0920		0-500	
VS 1 38-22	67-48	XI-11-56	1055			0-25	
VS 2	"	"	"	1200	19?	25-50	
VS-2R	"	"	"	1225	26?	25-50	
FL 3 38-06	67-41	"		1520	20	0-75	90
FL 3N 38-06	67-34	"		1810	30	0-75	41
SPT 4 43-28	64-54.3	13		0920	17	0-113	
FL 4 43-46	63-55	15		1442	43	0-0.75	24
FL 5 42-40.5	63-14.5	16		0415	28	0-0.75	36
SPT 5 42-53.5	63-09	"		2225			127

Name JEMA 11 No. Experiment No.

Instructor Date

CUB 62

TOTAL PLANKTON DISPL. VOL. (ML.)	TOTAL PLANK. DISPL. VOL. PL. (ML/1000M ³)	TOTAL FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY ‰	O ₂ CONC	DEPTH
					14.06				SURF.
					14.06				SURF.
					19.7				SURF.
					19.7				SURF.
					19.7				SURF.
					21.7				SURF.
					21.7				SURF.
					21.7				SURF.
					22.2				SURF.
					22.2				SURF.
					09.56				SURF.
					11.28				SURF.
					10.33				SURF

Name Vera 11 No. Experiment No.

Instructor Date

CUB 62

CRUISE & STATION NO.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (M)	Vol. H2O FILTERED (m3)
VII-F6	42-535 ^N	63-09 ^W	XI-16-56	2311	8	0-75	10
SPT6	42-36.5	63-18	17	1024	48	0-300	159
FL7	"	"	"	1013	30	0-75	72
SPT7	40-31	71-09	XI-6-56	0926	14	0-60	28

Name No. Experiment No.

Instructor Date

CUB 62

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. ML/1000ML ³	TOTAL PL. FORAMS	METHOD OF SEPAR.	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY ‰	ORG. CONC.	DEPTH
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10.33

SURF

11.60

SURF

11.60

SURF

13.06

SURF

Name VEMA 12 No. Experiment No.

Instructor Date

CUS 62

CRUISE STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (min.)	DEPTH OF TOW (m.)	VOL. H ₂ O FILTERED (m ³)
12 - 1	34-38N	66-36W	XII-16-56				124
2	32-55.6	64-22.4		17			184
3	32-59.1	64 64-22.1		30			316
4	16-33.6	28-05.6W	1-22-57	0600			
5	17-03S	28-13W	22	1635	26		
6	18-51.7	28-37.9	23	1430	29		
7	29-52	36-48	29	1808			
8	36-21.7S	56-22.3W	11-14-57	0800	105		
9	36-39.6	54-16.7		15		2	
10	37-29	59-52.5	16	1345	3		
11	38-02.5	53-34.8	17	1130	30	3-4	
12	40-38.2	55-16.3	19	0715	5	2.1	
13			21	0300	2	3	
14	40-15.0	59-24.8	28	0800	2		

Name Verna 12 No. Experiment No.

Instructor **Date**

CUB 82

Name VEMA 12 No. Experiment No.

Instructor Date

CUB 62

CRUISE STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF OF TOW (min)	DEPTH OF TOW (m)	Vol. H ₂ O FILTERED (m ³)
U12- 18	40-56S	58-36W	111-1-57	0200	2	0-4	
19 22	41-53	58-05.5	1	1600	5		
20 22	44-11.7	56-00.3	2	1200	2		
21 22	45-20	55-45	3	2300	2	0-4	
22 22	45-53	57-37		1700			
23 22	45-54	57-28	4	2330	21		
24 22	45-54	57-28	4	2330	2		
25 22	46-28	62-04	19	0930	2		

Name VEEMA 12 No. Experiment No.

Instructor Date

CUB 62

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML./1000M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	OZ CONC	DEPTH
						15.8			SURF
						13.9			SURF
						15.6			SURF
						15.2			SURF
						11.5			SURF
						11.5			SURF
						14.7			

Name VERMA 13 No. Experiment No.

Instructor Date

CUB 62

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW M.	VOL. H2O FILTERED m ³
V13-1			X-22-57	0842	3		4
2	38-36N	70-41.5W	25	1610	120		287
3	"	"	"	1345	10		24
4abc	"	"	"				
5	39-14.5	70-15	30	1842	25		64
6	"	"	"	2029	48		282
MPS2A BC	39-53.2	70-48.5	31	0845	135		
7	"	"	"	1015	30		443
8	70-03	71-08	"	1645	30		202
MPS3A	38-37	70-43	X1-1-57		35		
9	38-40	71-04	"	1455	30		198
MPS4A	39-01	71-41	"	2005			
10	"	"	"	2025	40		155
11	39-40	72-13.5	2	1245	10		

Name VEMA 13

No. Experiment No.

Instructor

Date

CUB 82

TOTAL PL. (ML.)	TOTAL PL. (ML/1000 m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC	DEPTH
						19.4			
						19.4			
						16.89			
						16.89			
						14.44			
						14.44			
						18.44			
						18.44			

Name VEMA 14

No. Experiment No.

Instructor

Date

CUB 32

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (M)	VOL. H ₂ O FILTERED (M ³)
V14-1D	38-03N	70-18W	XI-10-57	1107	38	0-300	257
1S	"	"	"	1100	25	SURF	150
2D	37-24	69-06	"	2250	30	0-320	349
2S	* "	"	"	2245	18	SURF	257
3S	NO SAMPLE						
3D	37-04	67-06	XI-11-57	1047	36	0-300	203
4S	35-39.5	66-17	"	2248	26	SURF	145
4D	"	"	"	2258	33	0-301	262
5S	34-53	65-42	11	1055	30	SURF	155
6D	34-55	65-58	12	0140	25	0-300	173
6S	"	"	13	0119	26	SURF	
7D	33-58	65-00	"	1125	40	0-392	383
7S	"	"	"	1120	28	SURF	88
8D	32-12.3	64-38	15	1600	33	0-300	128

Name VEMA 14

No. Experiment No.

Instructor

Date

CUB 62

PLANKTON ML.	TOTAL PL. DISPL. VOL. (ML./1000M ³)	TOTAL PL. DISPL. VOL. (ML./1000M ³)	METHOD FORAMS OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC.	DEPTH
7	2564	2564	SALINITY		VIII-1-5-58	18.3			SURF
1	0741	0741	SALINITY		1-28-59	18.3			SURF
26	2532	2532	SALINITY		VIII-24-58	17.5			SURF
1	0532	0532	SALINITY		11-2-59	17.5			SURF
3	0725	0725	SALINITY		11-17-58	21.9			SURF
4	0504	0504	SALINITY		11-2-59	23.3			SURF
2	0637	0637	SALINITY		11-17-58	23.3			SURF
8	1361	1361	SALINITY		11-3-59	26.1			SURF
6	1119	1119	SALINITY		VIII-19-58	22.2 22.81	36.33 36.51		SURF 100M
3	0391	0391	SALINITY		11-9-59	22.2			SURF
7	0452	0452	SALINITY		VIII-25-58	22.4			SURF
6	0860	0860	SALINITY		11-10-59	22.4			SURF
2	0293	0293	TOTAL		11-18-58	25.0			SURF

Name VEMA 14

No.

Experiment No.

Instructor

Date

CUB 62

CRUISE STATION No.	H.AT.	LONG.	DATE	TIME	TOTAL TIME ON TOW (min)	DEPTH OF TOW (m.)	VOL. H2O FILTERED (m ³)
V14-85	32-12.3N	64-38W	X1-15-57	1550	30	SURF.	47
9D	29-58	61-38	16	2015	30	0-300	109
9S	"	"	"	2009	21	SURF.	45
10D	29-13	60-31	17	1358	24	0-311	183
10S	"	"	"	1355	36	SURF	69
11D	26-45	58-42	18	1223	30	0-324	101
11S	"	"	"	1110	50	SURF	163
12D	23-23	53-26.4	20	1144	28	0-300	
12S	23-23	53-26.4	"	1140	42	SURF	166
13D	22-10	51-19.2	21	1208	29	0-300	192
13S	"	"	"	1028	37	SURF	146
14D	20-43	49-37	22	1100	30	0-300	
14S	"	"	"	1107	28	SURF	95
15D	20-20	48-49	"	2217	30	0-306	219

Name VEMA 14

No.

Experiment No.

Instructor

Date

CUB 62

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL (ML/1000m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC	DEPTH
4	0893	SALINITY		11-13-58	25.0				SURF
5	0312	TOTAL		11-18-58	24.1	36.67	4.14	SURF	
						36.55	4.35	100M	
2	0309	TOTAL		11-19-58	24.1				SURF
						24.2			SURF.
1	0441	TOTAL		11-19-58	26.1	36.92	4.09	SURF	
					21.60	36.76	4.20	100M	
						26.1			SURF
1	0347	TOTAL		11-19-58	26.1	36.67	3.80	SURF	
					22.85	36.87	4.21	100M	
						26.1			SURF.
1	0213	TOTAL		11-19-58	26.1				SURF
						26.1			SURF
						26.39			SURF
						26.39			SURF
4	0297	TOTAL		11-20-58	26.3				SURF

Name VEMA 14 No. Experiment No.

Instructor Date

CUB 62

CRUISE & STATION NO.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW(MIN.)	DEPTH OF TOW(M.)	Vol. H ₂ O FILTERED (M ³)
14-155	20-20N	48-49W	X-22-57	2215	39	SURF	114
16D	19-34	47-31	23	1507	29	0-300	203
16S	19-34	47-31	"	1237	30	SURF	116
17D	16-45	42-32	25	1025	"	0-300	99
17S	"	"	"	1020	40	SURF	181
18D	15-30	40-33	26	1013	27	0-300	102
18S	"	"	"	1016	31	SURF	99
19D	15-04	39-44	"	2243	30	0-300	164
19S	"	"	"	2236	44	SURF	191
20D	14-27.6	38-53	27	1005	29	0-300	184
20S	"	"	"	1007	31	SURF	85
21D	11-52.8	34-48	29	1010	30	0-311	188
21S	"	"	"	1014	33	SURF.	138
22D	10-53.6	33-13	30	1942	37	0-370	247
22S	10-53.6	33-13	"	1200	33	SURF	151

Name VEMA 14

No. Experiment No.

Instructor.....

Date.....

CUB 62

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML./1000 M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC	DEPTH
						26.3			SURF
5	0690	TOTAL		11-20-58	26.7				SURF
						26.7			SURF
4	0504	TOTAL		11-21-58	26.1				SURF
						26.1			SURF
5	1197	SALINITY		11-24-58	26.2				SURF
						26.2			SURF
7	1350	SALINITY		11-1-58	26.7				SURF
						26.7			SURF
6	0917	SALINITY		11-26-58	26.4 22.02	36.02 36.94	4.11 3.90		SURF 91M.
						26.4			SURF
10	1023	SALINITY		11-1-58	26.3 13.81	36.06 35.44	3.62 2.01		SURF 90M.
						26.3			SURF
11	2526	SALINITY		11-8-58	26.9				SURF
						26.9			SURF

Name VEMA 15 No. Experiment No.

Instructor Date

CUB 62

CRUISE STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (m)	Vol. H ₂ O FILTERED (m ³)
V15 - 15	39-30N	72-20W	X-18-58	1143	30	SURF	135
25	32-13	74-10	22	2037	60	SURF	195
35	27-17	77-08	X1-1-58	1415	60	SURF	214
oblique 4	25-38	74-07	2	1406	31		289
45	"	"	"	1410	48	SURF	70
55	20-30	73-16	4	0622		SURF	162
65	19-26	75-09	5	0252	90	SURF	193
75	15-51	75-11	6	0952	60	SURF	101
85	14-05	76-25	7	1545	65	SURF	85
95	11-30	75-50	8	2118	60	SURF	115
105	10-13	78-33	10	0229	110	SURF	335
115	7-24	79-07	13	2345	30	SURF	25
125	7-37	79-11	14	0315	40	SURF	89
135	7-30	79-15	14	0840	30	SURF	94

Name VEMA 15

No.

Experiment No.

Instructor

Date

CUB 82

PLANKTON DISPL. VOL. ML.	TOTAL PL. DISPL. VOL. (ML./1000M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC	DEPTH
						17.9			SURF
						26.7			SURF
						25.9			SURF
						9.47			SURF
						9.47			SURF
						28.6			SURF
						27.3			SURF
						28.9			SURF
						28.7			SURF
						29.1			SURF
						28.9			SURF
						27.9			SURF
						26.7			SURF
						27.6			SURF

Name VEMA 15 No. Experiment No.

Instructor Date

CUB 82

CRUISE STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (m.)	VOL. H2O FILTERED (m ³)
V15-1325	00-39S	38-01W	V-8-59	0220	30	SURF	172
1335	00-12N	39-54W	8	2015	45	SURF	202
1345	02-30	40-55	9	2230	95	SURF	249
1355	05-04	41-01	10	2155	30	SURF	216
1365	06-59	41-04	11	1925	40	SURF	189
1375	10-31	45-02	14	1540	30	SURF	162
1385	11-42.5	52-19.5	16	1613	30	SURF	151
1395	12-24	55-37	17	1415	30	SURF	213
1405	15-28	64-56	20	2230	90	SURF	331
1415	17-21	65-11	21	1703	30	SURF	122
1425	18-33	65-47	27	2307	30	SURF	174
1435	9-07.5	66-03	28	1223	30	SURF	146
1445	19-52.5	66-23	29	0046	30	SURF	193
1455	20-49	66-21	29	1256	30	SURF	172

Name VERMA 15

No.

Experiment No.

Instructor

Date

CUB 62

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML/1000 m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC	DEPTH
						26.9			SURF
						27.1			SURF
						27.1			SURF
						26.2			SURF
						26.1			SURF
						26.3			SURF
						26.2			SURF
						27.2			SURF
						26.7			SURF
						27.1			SURF
						26.2			SURF
						26.7			SURF
						26.1			SURF
						26.7			SURF

Name VEAMA 15

No. Experiment No.

Instructor

Date

CUB 62

CRUISE STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (m.)	VOL. H2O FILTERED (m ³)
V15-196S	20-49N	66-25W	V-29-59	2251	30	SURF	165
147S	21-09	66-39	30	2300	60	SURF	139
198S	22-01	66-22	31	1100	30	SURF	150
149S	23-09.5	66-32	V1-1-59	1100	30	SURF	165
150S	22-50	65-01	2	1100	30	SURF	175
151S	21-28	65-03	3	1000	30	SURF	114
152S	20-46	65-16	3	2310	30	SURF	125
153S	21-30	65-17	4	2020	30	SURF	151
154S	20-22N	66-59W	V1-6-59	1038	30	SURF	101
155S	21-30	67-00	7	1145	'	SURF	151
156S	21-30	67-33	8	0850	480	SURF	1251
157S	19-48	66-34	9	1815	30	SURF	135
158S	20-21	66-03	10	1100	30	SURF	99
159S	21-32	66-27	11	0600	60	SURF	164

Name.....VEMA 15

No.....Experiment No.....

Instructor.....Date.....

CUB 62

PLANKTON DISP. VOL. (ML.)	TOTAL PL. DISP. VOL. (ML./1000m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC.	DEPTH
						25.6			SURF
						26.14			SURF
						24.58			100M
						26.8			SURF
						25.8			SURF
						24.20			100M
						26.4			SURF
						25.8			SURF
						22.85			100M
						26.4			SURF
						26.7			SURF
						27.1			SURF
						26.9			SURF
						26.9			SURF
						26.6			SURF
						26.7			SURF
						26.4			SURF

Name UEMA 15 No. Experiment No.

Instructor Date

CUB 62

CRUISE STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW(M)	VOL. H ₂ O FILTERED (m ³)
V15-160S	20-21N	66-22W	V1-12-59	1010	690	SURF	1935
161S	19-58.5	66-37	17	1832	190	SURF	188
162S	25-15.5	72-42	21	1948	120	SURF	78
163S	24-57	77-47	23	0015	100	SURF	110
164S	26-27	78-15	24	1000	105	SURF	171
165S	26-40	79-25	VII-1-59	0050	80	SURF	199
166S	27-08.5	72-21	2, 3	1950	415	SURF	966
167S	27-19	76-34	3	1940	110	SURF	153
168S	26-11	76-27.5	4, 5	2200	188	SURF	242
OBlique 169	27-29	76-07	5	1106	44		384
170S	27-29	76-07	5	1103	682	SURF	1662
171S	27-46	76-41	6	1045	60	SURF	190
172S	29-07	76-26	7	0520		SURF	
OBlique 173	29-08	76-25.5	7	0840	34		248

Name Venus 15 No. Experiment No.

Instructor Date

CUB 62

PLANKTON DISPL. VOL. (ml.)	TOTAL Pl. DISPL. VOL. (ml./1000 m ³)	TOTAL Pl. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP(°C)	SALINITY (‰)	O ₂ CONC	DEPTH
						26.7			SURF
						27.0			SURF
						27.62			SURF 100 m
						24.93			
						27.3			SURF
						28.4			SURF
						28.5			SURF
						28.8			SURF 100 m.
						21.46			
						29.78			SURF
						28.0			SURF
						27.4			SURF
						27.4			
						27.2			SURF
						26.7			SURF
						26.3			SURF
						26.3			SURF

Name VEMA 15 No. Experiment No.

Instructor Date

CUB 62

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (m)	VOL. H ₂ O FILTERED (m ³)
V15-1745	30-31N	75-55W	VII-8-59	0858	312	SURF	1328
OBlique 175	30-31	75-55	8	0902	30		202
1765	32-34	74-21	9	1345	333	SURF	1307
1775	37-01	74-36	11	1000	55	SURF	199
1785	37-39.5	74-06	11	1622	33	SURF	150
OBlique 179	37-39.5	74-06	11	1626	37		422
1805	39-23	73-05	12	1327	45	SURF	164
1815	38-58	72-06	13	1200	490	SURF	1753
OBlique 182	38-58	72-06	13	1318	32		
MPS4	11-42.5N	52-19.5W	V-15-59	1902	114		
MPS5	12-24	55-37	17	1405	60		
MPS6	15-28	64-56	20	2205	100		
MPS7	15-51	75-11	XI-6-58	0810			
MPS10	10-13	78-33	10	0436			
MPS11	09-42.5	79-42.5	10	1718			

Name VENT 15 No. Experiment No.

Instructor Date

CUB 32

PLANKTON DISPL. VOL. M.L.	TOTAL PL. DISPL. VOL. (μ l/1000m ³)	TOTAL PL. FORAMS	METHOD OR SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC	DEPTH
						27.6			SURF
						27.0			SURF
						26.4			SURF
						21.0			SURF
						20.5			SURF
						20.5			SURF
						22.4			SURF
						22.1			SURF
						22.1			SURF

Name VENA 16

No. Experiment No.

Instructor

Date

CUB 62

CRUISE STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (m)	VOL. H ₂ O FILTERED (m ³)
V16 - 1	39-40.5N	72-19W	X-9-59	1150	32	SURF	110
2	"	"	5	0935	30	SURF	143
3	"	"	"	1210	29	0-300	110
4	39-36	72-22.5	6	1823	30	SURF	114
5	39-41	72-19.5	7	1055	30	SURF	162
6	39-15	71-13	7	1030	30	SURF	140
7	38-15	71-13	8	1315	29	0-300	141
8	36-53.5	69-13	9	1628	25	0-300	144
9	36-53.5	69-31	"	1625	35	SURF	154
10	36-00	68-49	10	0025	29	0-300	183
11	35-57	68-41	"	1037	30	SURF	130
12	35-55	68-37	"	1745	28	0-300	206
13	35-11	68-04	12	0835	30	SURF	95
14	"	"	"	0938	26	0-300	150

Name..... VEMA 16 No..... Experiment No.....

Instructor..... Date.....

CUB 62

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML/1000 m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP(°C)	SALINITY ‰	OZONE	DEPTH
						24.17			SURF
						24.17			SURF
						21.1			SURF
						21.0			SURF
						23.33			SURF
						23.33	34.969	4.85	SURF
						13.94	35.208	4.35	66 M
							35.516	3.58	125 M
						27.72			SURF
						27.72			SURF
						25.28			SURF
						27.06			SURF
						26.67			SURF
						25.8	36.467	4.44	SURF
						21.55	36.586	4.20	106 M
						24.06			SURF

Name UEMA 16No. Experiment No.

Instructor

Date

CUB 62

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (min.)	DEPTH OF TOW (m.)	Vol H ₂ O FILTERED (m ³)
V16-15	35-09.5N	68-00W	X-13-59	0950	30	SURF	145
16	35-09	68-01	"	1151	26		147
17	34-57	66-50	14	1157	30	SURF	130
18	34-57	66-50	14	1250	31	0-300	190
19	33-37	65-00	14	1230	30	SURF	140
20	33-37	65-00	"	1316	28	0-300	166
21	33-09	64-27	"	2116	28	0-300	180
22	3309	64-34	3"	2216	30	SURF	57
23	31-57.4	65-13.5	20	1820	30	SURF	119
24	31-57.8	65-16	21	1003	30	SURF	120
25	"	"	"	0958	27	0-300	149
26	31-13	63-59	22	0840	30	SURF	233
27	"	"	"	0855	26	0-300	220
28	30-00	63-24	"	2145	30	SURF	117

Name VEMA 16

No. Experiment No.

Instructor Date

CUB 62

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML/1000M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY (‰)	O ₂ CONC.	DEPTH
					26.11				SURF
					26.11				SURF
					26.39				SURF
					26.39				SURF
					28.5				SURF
					28.5				SURF
					25.10				SURF
					25.10				SURF
					24.35	36.587			SURF
					25.10	36.664			SURF
					25.10	36.664			SURF
					25.2	36.456			SURF
					25.2	36.456			SURF
					25.3	36.538			SURF

Name..... VEMA 16

No. Experiment No.

Instructor

Date

CUB 62

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW (m)	VOL. H ₂ O FILTERED (m ³)
V16-29	30-00N	63-24W	X-22-59	2150	30	0-300	208
30	28-44	63-40	23	0849	28	0-300	199
31	28-44	63-10	23	0900	30	SURF	199
32	27-26	62-48	24	1552	30	SURF	199
33	27-29	62-37	24	2252	29	0-300	321
34	25-15	62-31	25	1843	30	SURF	58
35	25-15	62-31	"	2056	28		148
36	24-42	62-28	26	1054	27	0-300	151
37	"	"	"	1050	30	SURF	103
38	22-06	63-04	27	1645	30	SURF	47
39	"	"	"	1634	32		119
40	20-55	63-57	28	1310	30	SURF	20
41	"	"	"	1333	26	0-300	63
42	19-10	60-31.5	X-14-59	0720	30		193

Name VEMA 16

No. Experiment No.

Instructor

Date

CUB 62

PLANKTON DISPL. VOL. ML.	TOTAL PL. DISPL. VOL. (ML/1000m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP(°C)	SALINITY (‰)	O ₂ CONC	DEPTH
					25. 3	36.538			SURF
					26. 8	36.450	4.72		SURF
					19. 49	36.531	4.88		117M
					26. 8	36.450			SURF
					26.15	36.366			SURF
					26. 2	36.366			SURF
					27. 1	36.801			SURF
					27. 1	36.801			SURF
					27. 8	36.681			SURF
					27. 8	36.681			SURF
					32.22	36.889			SURF
					32.22	36.889			SURF
					28. 50	36.484			SURF
					28. 50	36.484			SURF
					28. 28	34.644			SURF

Name Uema 16 No. Experiment No.

Instructor Date

CUB 62

CRUISE STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (min)	DEPTH OF TOW (m)	Vol. H ₂ O FILTERED (m ³)
U16-43	19-10N	60-31.5W	11-4-59	0735	30	SURF	166
44	19-12	57-47	5	0815	30	SURF	100
45	19-04	53-47	6	2005	30	SURF	66
46	17-56	50-21	8	1630	30	SURF	71
47	17-56	50-21	8	1631	28	0-298	83
48	17-16.5	48-25	9	0953	27	0-300	128
49	"	"	"	0955	30	SURF	110
50	16-24	45-46	10	1025	30	SURF	169
51	14-13	41-47	"	2110	30	SURF	105
52	13-40	41-11	12	0700	31	0-300 ± 3	990
53	13-15	40-40	"	1617	28	0-300	194
54	12-20	39-27	13	0729	30	SURF	49
55	05-04	36-48	15	1842	30	SURF	97
56	02-47	35-42	16	1830	30	SURF	168

Name VEMA 16 No. Experiment No.

Instructor Date

CUB 62

PLANKTON DISPL. VOL ML.	TOTAL PL. DISPL. VOL. (ML/1000m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY ‰	O2 CONC	DEPTH
						28.28	34.644		SURF
						28.33	34.842	4.62	SURF
						23.66	37.077	4.29	120M
						27.94	35.363	4.31	SURF
						23.29	37.117	4.37	120M
						27.33	36.797	4.38	SURF
						24.36	37.210	4.74	97M
						27.33	36.797		SURF
						27.78	35.064	4.38	SURF
						25.06	37.079	4.74	100M
						27.78	35.064		SURF
						26.78	36.650	4.38	SURF
						29.66	36.766	4.72	100M
						26.67	36.504	4.50	SURF
						20.37	36.735	3.67	105M
						27.22	36.148		SURF
						26.67	36.150		SURF
						27.06	35.798	4.48	SURF
						15.66	35.931	2.55	112M
						28.22	35.945	4.53	SURF
						21.539	36.140		114M
						(36.130)	36.130	4.45	84M.)
						27.50	35.631	4.49	SURF
						26.39	36.145	4.23	106M

Name VEMA 16No. Experiment No.

Instructor

Date

CUB 62

CRUISE # STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (min)	DEPTH OF TOW (m)	VOL. H ₂ O FILTERED (m ³)
U16-57	02-47N	35-42W	XI-16-59	2006	24	0-300	253
58	00-12	34-55.5	17	1744	30	SURF	142
59	09-05S	32-57W	23	1233	30	SURF	48
60	10-35S	31-02W	24	1240	30	SURF	91
61	10-35	31-06	24	1558	22	0-300	153
62	11-08.5	29-16.5	25	1503	30	SURF	172
63	11-44	27-37	26	1222	102	SURF	368
64	13-05	24-40	27	1820	30	SURF	92
65	13-59.5	22-47	28	2013	43	SURF	68
66	15-20	19-43		1055	31	SURF	160

Name VEMA 16

No. Experiment No.

Instructor

Date

CUB 62

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML./1000 m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	OZONE	DEPTH
						27.50	35.631		SURF
						27.22	36.004	4.58	SURF
						21.95	36.176	4.00	108M
						26.94	36.229		SURF
						26.75	36.275		SURF
						26.75	36.275		SURF
						26.33	36.392		SURF
						26.11	36.522		SURF
						24.89	36.819		SURF
						24.56	36.617		SURF
						23.94	36.885		SURF

Name VEMA 16 No. Experiment No.

Instructor Date

CUB 82

CRUISE STATION No.	Lat.	LONG.	DATE	TIME	TOTAL TIME OF TOW (min)	DEPTH OF TOW (m)	Vol. H ₂ O FILTERED (m ³)
116-254	45-37N	60-09W	VIII-9-60	1810	40	0-8.5	
255	45-57	58-11	10	1035	15	0-8.5	
256	46-38	55-06	11	1430	35	0-8	
257	47-51	51-50	13	1920	13	0-5	
258	48-54	51-08	14	1310	38	0-8	
259	52-29	57-25	16	1638	34	0-8	
260	53-40	55-12	17	1035	3	0-8	
261	54-06	54-37	"	2325	15	0-8	
262	56-58	51-33	19	1800	45	0-8	
263	59-04	48-30	20	1815	45	0-8	
264	60-10	47-08	21	1220	150	0-12	
265	60-47.3	45-38.8	24	0745	45	0-12	
266	60-03	50-50	26	1253	150	0-8	
267	58-22	52-18	27	1841	37	0-8	

Name VEMA 16 No. Experiment No.

Instructor Date

CUB 62

PLANKTON DISPL. VOL. (ML)	TOTAL PL. DISPL. VOL. (ML/1000M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP(°C)	SALINITY ‰	O2 CONC.	DEPTH
						19.00			SURF
						18.10			SURF
						15.60			SURF
						16.00			SURF
						16.00			SURF
						9.40	30.073	7.04	SURF
						-1.08	33.530	7.44	99M
						9.00	30.334	7.37	SURF
						-0.93	33.174	7.48	99M
						8.10			SURF
						9.80			SURF
						8.40			SURF
						7.80	34.403	6.75	SURF
						7.79	34.946	6.21	88M
						6.50	30.496		SURF
						0.51	33.325		99M
						8.50	34.504	3.91	SURF
						3.65	34.699	3.86	86M
						9.22			SURF

Name VEMA 16 No. Experiment No.

Instructor Date

CUB 62

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (M.)	VOL. H2O FILTERED (m³)
J16-268	56-12N	59-12W	VIII-28-60	1810	110		
269	"	"	"	1835	25	0-12	
270	55-37	56-08	29	1040	27	0-12	
271	55-48	56-00	30	1455	26	0-10	
272	55-32	58-31	31	1400	44	0-10	
273	55-35	58-07	31	1918	27	0-10	
274	52-18	55-26	IX-4-60	1625	85	0-10	
275	51-01	57-10	5	2120	57	0-10	
276	50-15	58-23	6	1605	30	0-10	
277	47-16	59-29	7	2230	30	0-8	
278	46-54	58-33	8	1105	30	0-8	
279	44-59	60-46	11	1406	14	0-10	
280	39-45	72-01	19	2035	35		184

Name..... VEMA 14 No. Experiment No.

Instructor Date

CUB 62

PLANKTON DISPL. VOL. ML.	TOTAL PL. DISPL. VOL. (ml/1000m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP (°C)	SALINITY (‰)	O2. CONC	DEPTH
						8.33			SURF
						8.33			SURF
					6.67 3.83	34.052 34.752	7.08 6.32		SURF 101m
						7.28			SURF
					4.6 -0.98	31.799 32.443	7.26 7.11		SURF 99m
						2.72			SURF
					6.11 -1.47	30.024 32.587	6.98 7.35		SURF 99m
						13.49			SURF
						14.72			SURF
						12.33			SURF
						13.11			SURF
						18.0 1.83			SURF 112

Name VEMA 14 No. Experiment No.

Instructor Date

CUB 62

CRUISE & STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (M.)	VOL. H ₂ O FILTERED (M ³)
V-17-1-103	34-29N	68-28W	XII-11-60	1335	25	0-150	72
1-2A	34-29	68-28	11	1406		0-50	
1-2B	34-29	68-28	11	1406		50-100	
1-2C	34-29	68-28	11	1406		100-150	
2-1	28-29	65-03	15	1015		500-1000	
3-1	19-50	67-24	18	1340	65	0-5	894
4-1	19-58	68-08	20	1400		0-300	258
4-2	19-58	68-08	20	1400		0-3	1332
V-17-22-1	18-32	81-29	11-11-61	1105		SURF	755
23-1	11-45	80-25	13	1915		500-1000	1319
23-2	11-45	80-25	13	2007		0-400	402
23-3	11-45	80-25	13	1920		SURF	763

Name VENA 17 No. Experiment No.

Instructor Date

CUB 32

PLANKTON DISPL. VOL. (ML.)	TOTAL PL. DISPL. VOL. (ML/1000 M ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C.	SALINITY 0/00	O ₂ CONC	DEPTH
						21.0			SURF
						22.1			90M
						21.0 22.1			SURF 90M
						21.0 22.1			SURF 90M
						21.0 22.1			SURF 90M
						23.3 20.0			SURF 90M
						27.0 25.0			SURF 90M
						27.0 26.6			SURF 72M
						27.0 26.6			SURF 72M
						27.0			SURF
						26.7 26.6			SURF 78M
						26.7 26.6			SURF 78M
						26.7 26.6			SURF 78M

Name JEMA 17

No. Experiment No.

Instructor

Date

CUB 62

CRUISE STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN)	DEPTH OF TOW(M)	Vol. H ₂ O FILTERED m ³	TYPE OF TOW
✓ 17-72	26°-50.5'N	32°-08.2'W	VII-25-61					BPS MPS
72S	26-51	32-08	25	1735	60		493	SURF.
✓ 73S	27-58	34-09	26	0850	45	0-10	165	SURF.
730	27-58	34-09	26	1003	52	0-300	352	OBK.
74S	28-28	35-02	26	1937	36		152	SURF.
✓ 740	28-28	35-02	26	1820	60	0-300	215	OBK.
750	29-37	36-57	27	1313	43	0-300	147	OBK.
75S	29-37	36-57	27	1155	60		208	SURF.
76S	29-59	37-31	27	1810	65		532	SURF
76	29-59	37-31	27					MPS BPS
770	32-44	391-53	29	0740	23	0-300	168	OBK.
77S	32-44	41-53	29	0556	84		217	SURF
78	33-16	42-42	29					MPS BPS
78S	33-16	42-42	29	1656	69		216	SURF

Name JEMA 17

No. Experiment No.

Instructor Date

CUB 62

PLANKTON Ds.	TOTAL PL. DISPL. VOL. (ML.)	TOTAL PL. (ML/1000m ³)	PL. FORAMS	METHOD OF SEPARATION	PATE SEPARATED	DATE FORAMS IDENTIFIED	Temp °C	SALINITY ‰	O ₂ CONC.	DEPTH
							24.2			SURF
							20.6			90M
							24.2			SURF
							20.6			90M
							24.1			SURF
							20.7			90M
							24.1			SURF
							20.7			90M
							24.3			SURF
							20.6			90M
							24.3			SURF
							20.6			90M
							25.3			SURF
							21.0			90M
							25.3			SURF
							21.0			90M
							24.8			SURF
							20.0			90M
							24.8			SURF
							28.0			90M
							25.9			SURF
							25.9			SURF
							26.1			SURF
							17.5			90M
							26.1			SURF
							17.5			90M

Name VEMA 17

No.

Experiment No.

Instructor

Date

CUB 82

CRUISE STATION No.	LAT.	LONG.	DATE	TIME	TOTAL TIME OF TOW (MIN.)	DEPTH OF TOW (m)	Vol. H ₂ O FILTERED m ³	TYPE OF TOW
V17-79S	34-56N	45-21W	VII-30-61	1640	90		(450)	SURF
79	34-56	45-21		30				BPS MPS
80S	35-45	47-05	31	1423	67		500	SURF
80	35-45	47-05	31	8				BPS MPS
81S	37-30	50-05	VIII-1-61					SURF-OBX.
81	37-30	50-05		1				BPS MPS
82S	38-19	52-42		2				SURF-OBX.
83	39-21	53-47		2				MPS BPS SURF
84S	40-39	55-58	3	1013	60	0-10	354	SURF
840	40-39	55-58	3	1225	49		(283)	0131.
85	41-18	57-12	3					BPS MPS SURF
86S	42-30	59-06	4	1014	60	0-10	219	SURF
86	42-30	59-06		4				MPS BPS
87	43-01	59-51		4				BPS MPS SURF
88S	43-38	61-27		5				SURF A-B

Name VEMA 17

No. Experiment No.

Instructor

Date

CUB 82

PLANKTON DISPH. VOL. (ml.)	TOTAL PL. DISPH. VOL. (ml/1000m ³)	TOTAL PL. FORAMS	METHOD OF SEPARATION	DATE SEPARATED	DATE FORAMS IDENTIFIED	TEMP °C	SALINITY ‰	O ₂ CONC.	DEPTH
						26.3			SURF
						17.2			90M
						26.3			SURF
						17.2			90M
						26.0			SURF
						26.0			SURF
						25.7			SURF
						25.7			SURF
						17.2			90M
						24.9			SURF
						18.4			90M
						26.5			SURF
						23.1			90M
						23.4			SURF
						19.7			90M
						23.4			SURF
						19.7			90M
						23.0			SURF
						19.4			90M
						22.7			SURF
						15.5			89M
						22.7			SURF
						15.5			89M
						18.4			SURF
						17.0			SURF